BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvement to Cement Concrete roads at Bagalagunte Village in Bagalagunte W.No-14

JOB NUMBER.:

Sl. No	Description of Work	Unit	No	Sl-3 Dimension L	B	D	Est. Amount = Quantity	50.00 Rate in Rs.	Lakhs Amount in Rs.
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH/Chapter 3 (Page No. 142, It No. 19.1 of KPWD S.R 2016-17)								
	Bagalagunte Village								
		Cum	3	4.00	4.00	0.50	24.00		
			6	5.00	0.50	0.50	7.50		
			8	6.00	0.90	0.50	21.60		
						Total Qty	53.10	170.92	9075.85
2	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :C. Prestressed I Reinforced cement concrete grade M-20 & above.(Page No. 137, It No. 18.19 of KPWD S.R 2016-17)								
	Bagalagunte Village								
		Cum	1	179.00	5.00	0.15	134.25		
						Total Qty	134.25	1083.32	145435.71
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4,2(Page No. 12, It No. 4.3 of KPWD S.R 2016-17)								
	Bagalagunte Village								
		Cum	1	179.00	5.00	0.15	134.25		
			3	4.00	4.00	0.15	7.20		
			6	5.00	0.50	0.15	2.25		
			8	6.00	0.90	0.15	6.48		
						Total Qty	150.18	5159.02	774781.62
4	SRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification nNo. 406(Page No. 158, It No. 20.18 of KPWD S.R 2016-17)								
	Bagalagunte Village								
		Cum	1	179.00	5.00	0.15	134.25		
			3	4.00	4.00	0.15	7.20		
			6	5.00	0.50	0.15	2.25		
			8	6.00	0.90	0.15	6.48		
						Total Qty	150.18	1768.08	265530.25

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Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
5	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)(Page No. 177, It No. 22.6.1 of KPWD S.R 2016-17)								
	Bagalagunte Village								
		Cum	1	179.00	5.00	0.15	134.25		
			3	4.00	4.00	0.15	7.20		
			6	5.00	0.50	0.15	2.25		
			8	6.00	0.90	0.15	6.48		
			1	50.00	50.00	0.15	375.00		
						Total Qty	525.18	6217.96	3265548.23
								Total Constrution cost	4,460,371.67
								DPR charges	44,603.72
								KRIDL Charges 11%	490,640.88
								Sub Total	4,995,616.27
								Miscellaneous & Rounding Off	4,383.73
								Grand Total	5,000,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Assistant Engineer
Ward No.14
BBMP - Bangalore

Assistant Executive Engineer
Dasarahalli Sub-Division
BBMP - Bangalore

Executive Engineer
Dasarahalli Division
BBMP - Bangalore

ನಂ. CE/D2/TS/171/18-19 ದಿನಾಂಕ : 24/03/2018
ರೂ. 50.00/- (Rs Fifty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

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ANNEXURE-2

Rate Analysis for Cost Estimate for BBMP

Based on KPWD SR-2016-17, Bangalore Circle

Sl. No	Description of Work	Unit	Item no	Page no	Basic rate in (Rs)	Lead Charge For 5Km	AW 6%	Final Rate (Rs)
1	KSRRB 300-1. Earthwork excavation by manual means in ordinarysoil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH/Chapter 3	Cum	19.1	142	82.00	84.00	4.92	170.92
2	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :C. Prestressed I Reinforced cement concrete grade M-20 & above.	Cum	18.2	137	1022.00		61.32	1083.32
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4,2	Cum	4.3	12	4867.00		292.02	5159.02
4	SRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification nNo. 406	Cum	20.2	157	1668.00		100.08	1768.08
5	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)	Cum	22.6.1	177	5866.00		351.96	6217.96

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Assistant Engineer
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BBMP - Bangalore

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Dasarahalli Sub Division
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BBMP - Bangalore

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